

Session 2: IT & Performance Issues

Longer Term / Future

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- Gradual replacement of F77 with F90.
- Unified coding paradigm for all LAPS code.
- Documentation for coding practices within LAPS for collaborators
eg. preferences of order to loop through indices, how to avoid subroutine calls in big loops, etc.
- Summary of subroutines calls within each file (F90 construct?).
- Defined method for collaborators to submit LAPS changes for inclusion in LAPS.
- How to add new data sources to LAPS, both ingest and usage. (Phased array radar, lidar, etc.)
- Optimize LAPS for 15 minute cycling and highest resolution grids.
- Work toward 4D-Data Cube and NNEW data ingest.
- Output LAPS in netCDF 4 / HDF5.
- GIS raster and vector output from LAPS.
- AWIPS2 uses Java geo-tools API...can this be used to generate GIS output?
- Plan for parallelization of LAPS to optimize running on multi-processor computers, especially STMAS
- Run data ingest of unique sources simultaneously whenever possible.